

CLAIMS

What is claimed is:

1. An automotive lamp assembly comprising:
 - a. a reflector for reflecting light into a light beam, the direction of propagation of the light beam defining locations in front of the reflector;
 - b. a light pipe positioned in front of the reflector;
 - c. a light source carrier positioned behind the light pipe; and
 - d. at least one light source positioned on the light source carrier and arranged and disposed to emit light on to the reflector.
2. The automotive lamp assembly of claim 1 wherein the at least one light source comprises a plurality of LEDs.
3. The automotive lamp assembly of claim 1 wherein the light source carrier is a heat sink.
4. The automotive lamp assembly of claim 1 wherein the light pipe extends vertically from the top to the bottom of the reflector.
5. The automotive lamp assembly of claim 1 wherein the reflector comprises a plurality of facets vertically arranged upon the reflector.
6. The automotive lamp assembly of claim 5 wherein the light source carrier comprises a plurality of LED seats and each of the plurality of LEDs are arranged on one of the plurality of LED seats such that each of the plurality of LEDs is directly opposed to one of the plurality of facets of the reflector.
7. The automotive lamp assembly of claim 1 wherein the light pipe is positioned in the path of the light beam.

8. An automotive lamp assembly comprising:
 - a. a reflector including a plurality of facets, each of the plurality of facets having a distinct focal point;
 - b. a plurality of LEDs, each of the plurality of LEDs (i) corresponding to one of the plurality of facets, (ii) positioned substantially at the focal point of the one of the plurality of facets, and (iii) arranged to emit light on to the one of the plurality of facets.
9. The automotive lamp assembly of claim 8 further comprising an LED carrier having a front side and a rear side with the plurality of LEDs located upon its rear side, the LED carrier positioned in front of the reflector and sufficiently close to each of the focal points such that each of the plurality of LEDs are substantially located at one of the focal points.
10. The automotive lamp assembly of claim 9 wherein each of the plurality of LEDs are directly opposed to one of the plurality of facets of the reflector.
11. The automotive lamp assembly of claim 9 wherein the LED carrier serves as a heat sink for the plurality of LEDs.
12. The automotive lamp assembly of claim 9 further comprising a light pipe adjacent to the front side of the LED carrier such that it at least partially covers the front side of the LED carrier.
13. The automotive lamp assembly of claim 8 wherein the plurality of facets are positioned vertically upon the reflector.

14. An automotive lamp assembly designed to create a light beam that propagates in a forward direction with respect to the automotive lamp assembly, the automotive lamp assembly comprising:
 - a. a plurality of LEDs arranged and disposed to direct light in a direction substantially opposite the forward direction;
 - b. a reflector arranged and disposed to receive light from the plurality of LEDs and reflect the light in the forward direction, thereby forming the light beam.
15. The automotive lamp assembly of claim 14 further comprising an LED carrier positioned in front of the reflector such that each of the plurality of LEDs are positioned upon the LED carrier.
16. The automotive lamp assembly of claim 15 further comprising a light pipe positioned in front of the LED carrier.
17. The automotive lamp assembly of claim 14 wherein the reflector comprises a plurality of facets positioned vertically upon the reflector.
18. The automotive lamp assembly of claim 16 wherein the light pipe and LED carrier both extend vertically from the top to the bottom of the reflector.